

# COMPARISON OF THE GAS NRA/ROFA GENOMIC REGIONS

	10	20	30	40	50	60	70	80	90	100	110	120
Nra	MPVVKKKDSFLVETYLEQSI	RDKSELVLLLFKSP	TIIFSHVAKQTGLTAVQLK	YKYCKELDDFFGNLDIT	TKKGII	CCFVKPVKEFYLH	QYDTSTILKLLVFFIK	NGTSSQPLIKFS				
RofA	-----i.K...S..ES.CQ.v.F..tSYlP	ite.EK....F1.NH.E..NA..PDS.Sm..Q.RM.S.Q.TH.F.T.Y...As.Nv.Q..A.L....sh.R..TD.a										
Nra	KYFLSSSSAYRLRESLIKLR	EFGLRVSKNTIVGEEYR	IRVILIAMYSKFGIVYPLD	HLDNQIIYRFLSQSATN	RTSPWLEEPFSFYNNLL	ALSWKRHQFAVSIPQ	TRIFRQLKKLF					
RofA	rSH..N....m..a..P..N.E.k1..K.....l.....kv.D.TQQ.KnT.HS...H.s.H.k.....S.S....Di.....s.t.....Q.....											
Nra	IYDCLTRSSQV	ENAFSLTFSQGLDYLFLIYIT	TNNSFASLQWTPQHIE	TCCHIFKNDTFRLLLEPILKRLPQIN	HSKQDLIKALMYFSK	SFLNLQHFVIEIP	SFSLPTVTGNSNL					
RofA	...S.Kk...Di...TYCQ.N.A....y....a.....E.RQ.Q1....K.itL.n.KEQ.PS.v....f.....ip.TNL.VS.Y.K..QK.											
Nra	YKALKNIVNQWLAQLPGKRHLNEKHLQ	LFCSHTEQILKNKQPALTVL	ISSNFINAKLLTDTIPRVFSDKGTHFY	SFYLLRDDIYQIPSLKPD	LIVITHSRLIPFVKNDL	VKGVTVAEFSF						
RofA	Ts..L..EE.m.K....Y..H..FH...HYv....r.I..P.V..Fva.....H....sF.....S.D.H.y...Q.Nv....D.....Q.....HHe.T..ia...I...											
Nra	DKPDYSIASIQNL	IYQLKDKKYQDFLNEQLQ	511									
RofA	E---L...E.m.Rv.ee.f.AD.TK..T	497										

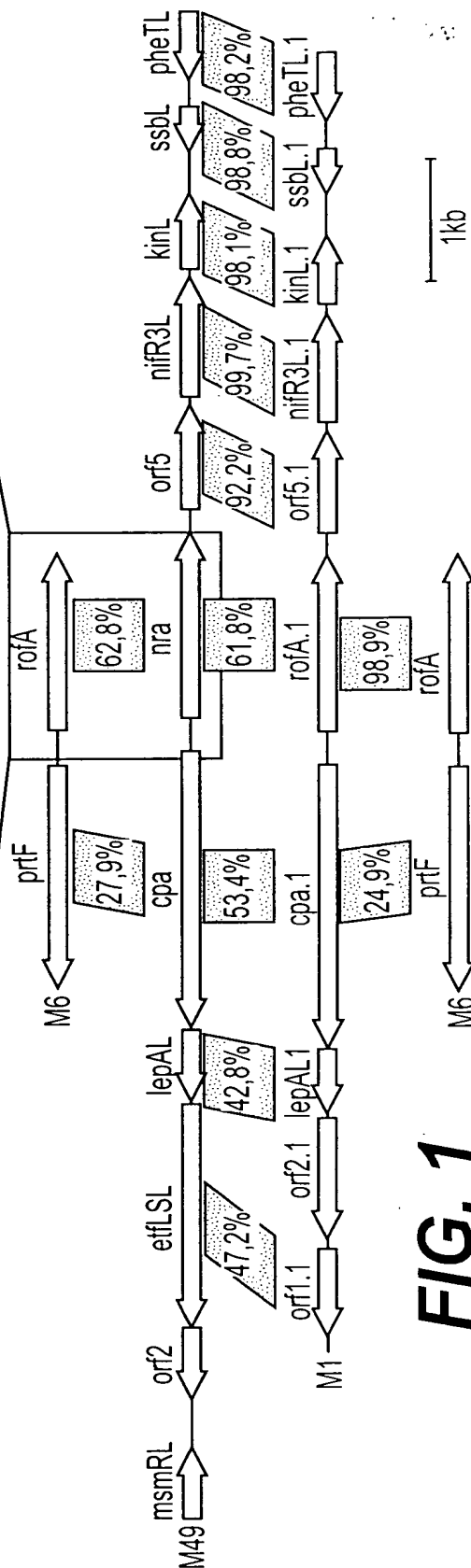
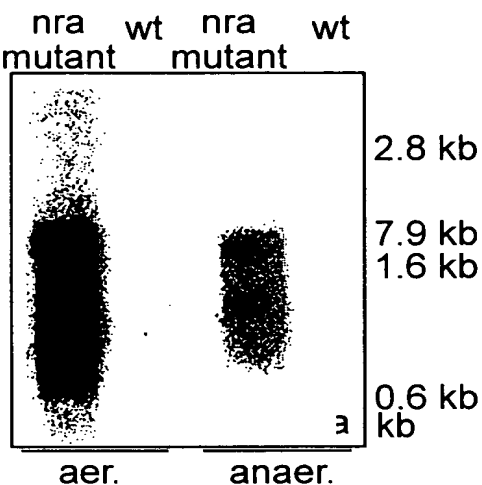
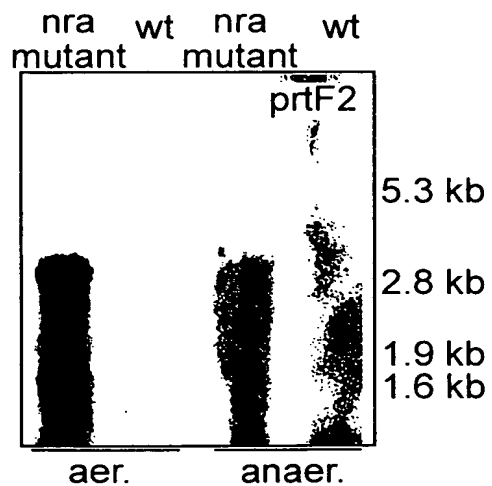


FIG. 1

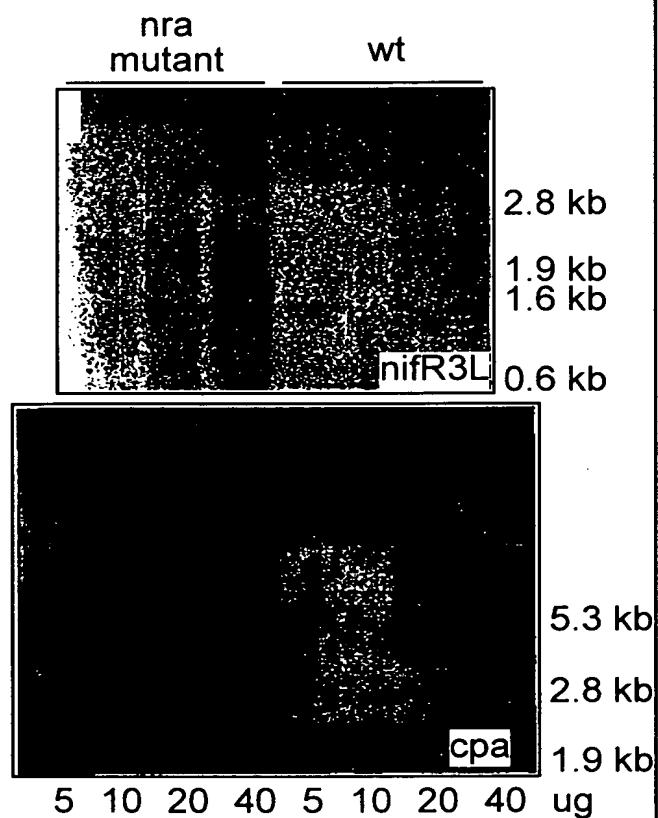
TRANSCRIPT ANALYSIS OF SELECTED GENES  
IN GAS wt AND *nra* MUTANT STRAINS



**FIG. 2A**



**FIG. 2C**



**FIG. 2B**

# TRANSCRIPT ANALYSIS OF REGULATORY GENES IN GAS wt, mga AND nra MUTANT STRAINS

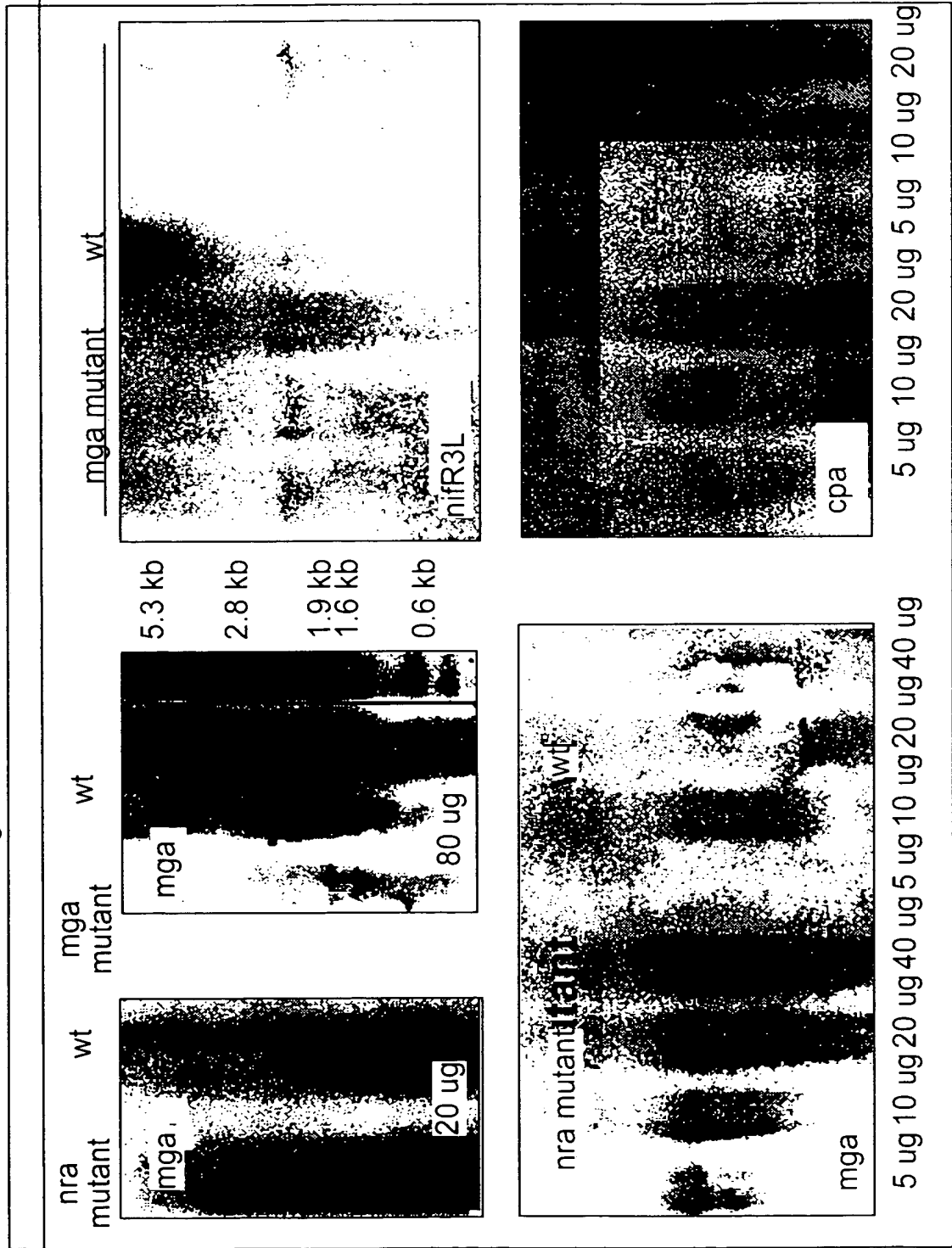
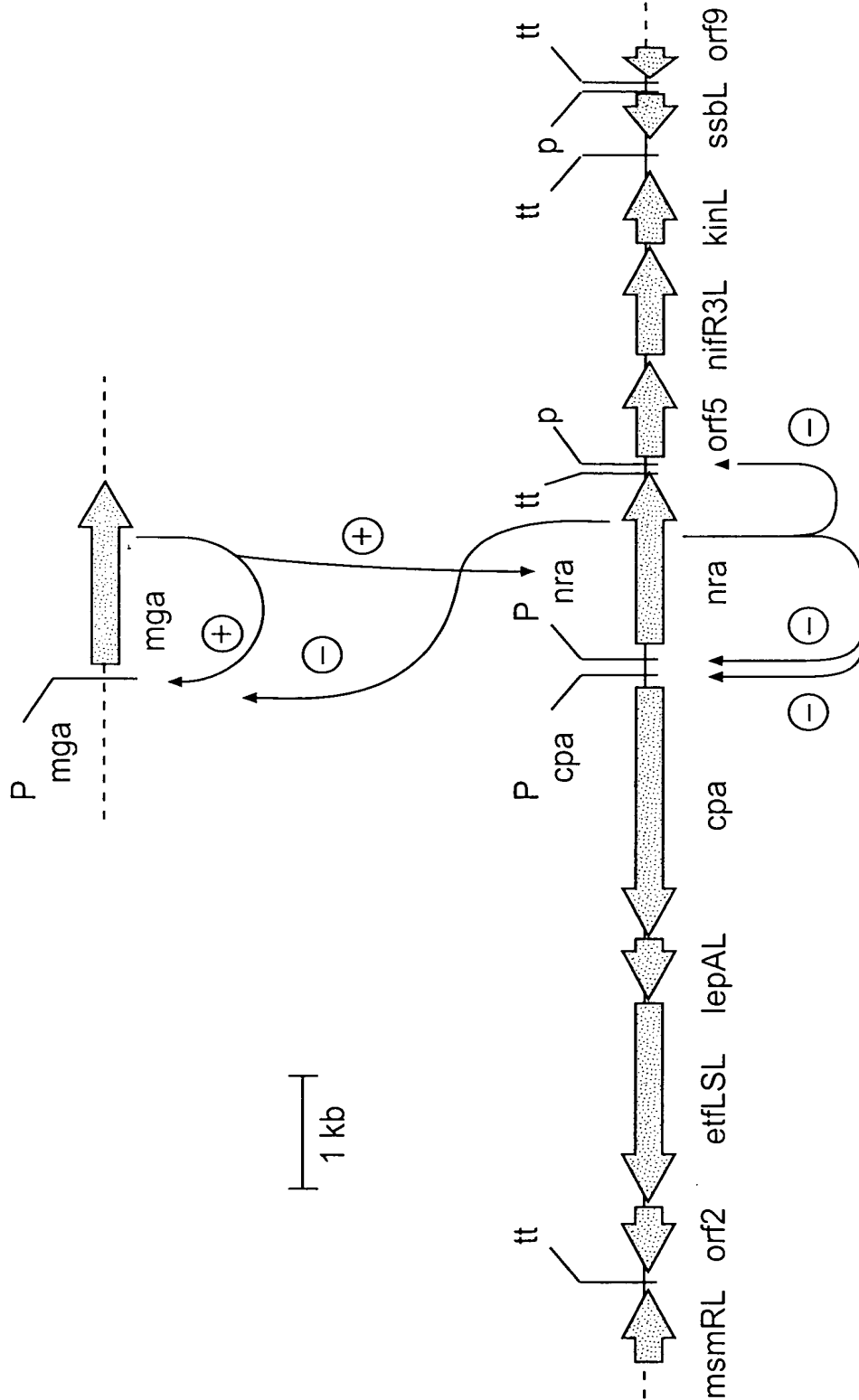
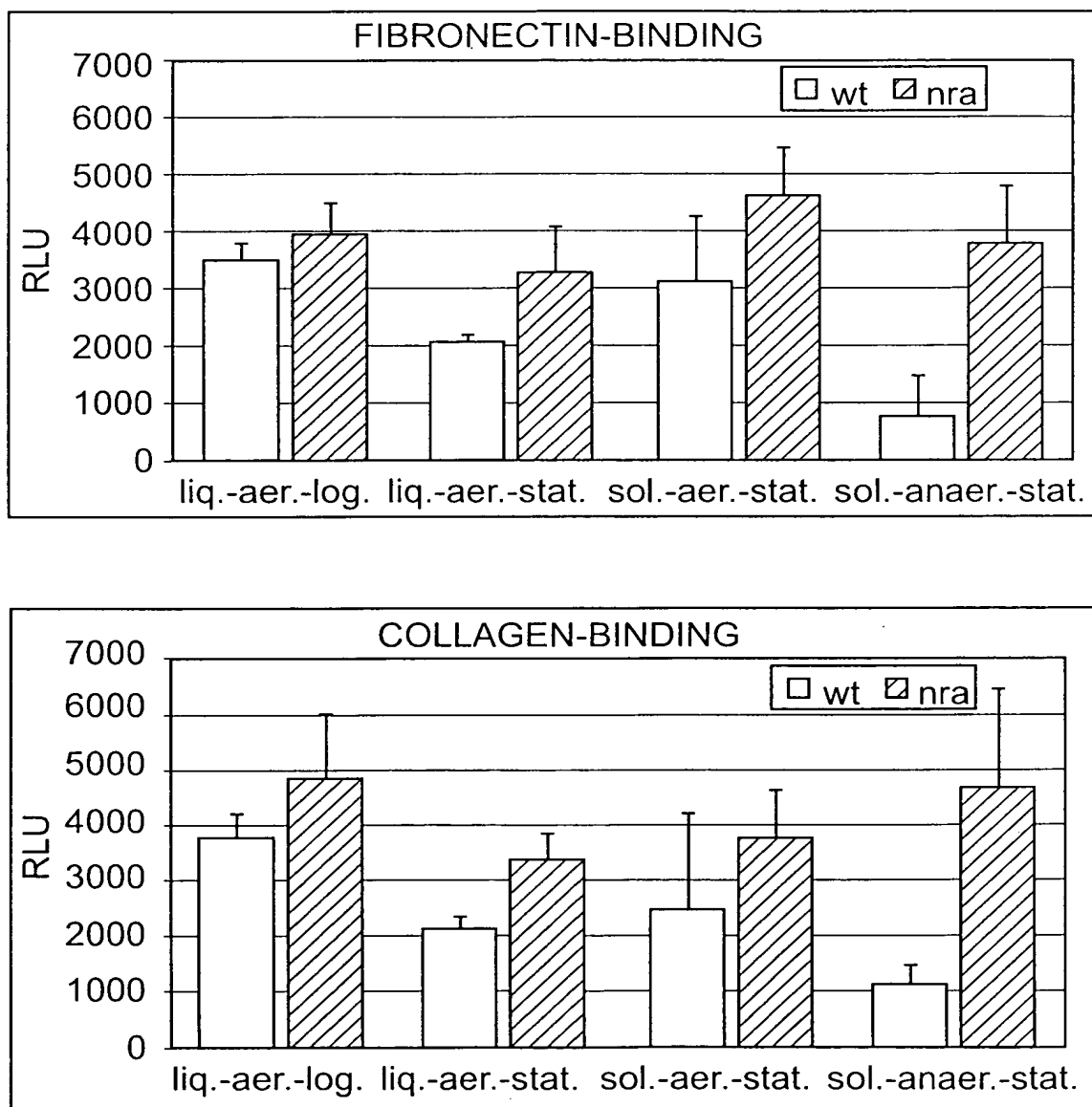


FIG. 3



**FIG. 4**

Binding to immobilized human matrix proteins by GAS  
wt and nra-mutant strains grown in/on THY-medium  
to logarithmic/stationary growth phase in an  
aerobic/anaerobic atmosphere



**FIG. 5**